



Stained Glass Window

by Arya Akhavan (July 2013)

Angles for R.I. = 2.620

40 + 7 girdles = 47 facets

1-fold, mirror-image symmetry

96 index

L/W = 1.072 T/W = 0.434 U/W = 0.396

P/W = 0.631 C/W = 0.177

Vol./W³ = 0.358

PAVILION

P1	45.30°	05-19-33-46-50-63-77-91	Cut to centerpoint.
G1	90.00°	96-24-72	Set stone size.
G2	90.00°	30-66	Meet P1, G1
G3	90.00°	45-51	Meet P1, G2
P2	65.68°	96-24-72	Meet P1, G1
P3	66.24°	30-66	Level girdle.
P4	63.12°	45-51	Level girdle.
P5	42.89°	96-32-64	Meet P1, P2 (only one facet meets)
P6	42.00°	40-56	Meet P1, P3, P4; culet
P7	44.46°	48	Meet P1, P4; culet

CROWN

C1	36.57°	96	Set girdle width.
C2	32.00°	24-72	Level girdle.
C3	32.00°	30-66	Level girdle.
C4	32.00°	45-51	Level girdle.
C5	30.44°	01-95	Meet G1, C1, C2
C6	30.44°	25-71	Meet G1, G2, C2, C3
C7	28.40°	29-67	Meet G1, G2, C2, C3, C6
C8	28.10°	96	Meet C1, C5; C2, C5, C6
C9	17.25°	43-53	Meet C3, C4, C7
C10	16.75°	36-60	Meet C3, C4, C7, C9
T	0.00°	Table	Meet C2, C5, C6, C8

I'm stuck on yet another plane, so I'm just messing around with old designs, mirroring them, rotating them, and otherwise mutating them to see if something interesting happens. This design is a byproduct of "Lethargy".

Works in materials from quartz to rutile (RI = 1.52 - 2.62) with no changes; rutile looks most like stained glass.

Suggested size = 7-12 mm

C:\Program Files (x86)\GemCAD\Designs (Mine)\Works in Progress\32. Stained Glass Window.gem